

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

1. – 8. (Canceled)

9. (Previously Presented) The heat exchanger of claim 8, comprising, for each connecting point, a ring encompassing an eversion.

10. (Canceled)

11. (Previously Presented) The heat exchanger of claim 12, wherein at least one wall comprises sheet copper with a thickness of from 0.3 to 0.8 mm.

12. (Currently Amended) A heat exchanger forming a flow-through chamber for a heat transfer medium, comprising:

two joined together sheet-copper walls having edges forming a flow through chamber for a heat transfer medium, ~~the walls being joined together at a plurality of connecting points inside a surface between edges of the heat exchanger, wherein the walls mesh with one another at the connecting points inside the surface between the edges of the heat exchanger and are punctate fastened to one another by compression molded annular denticulations,~~

the walls having a plurality of approximately circular surface indentations
between the edges,

the indentations being in contact and placed back-to-back to one another and
defining connecting points,

the two sheet-copper walls being positively engaged by annular denticulations
compression molded on the connecting points,

wherein the denticulations are having a spacing on all sides from an edge of
the indentation and being disposed with a mutual spacing between the denticulations
of from 10 to 50 mm.

13. (Previously Presented) The heat exchanger of claim 12, wherein the denticulations are disposed in at least one of rows and in a grid pattern.

14. - 16. (Canceled)

17. (Previously Presented) The construction kit of claim 26, wherein the connecting elements are plug connectors.

18. (Previously Presented) The construction kit of claim 26, having a pump.

19. (Previously Presented) The construction kit of claim 26, having a hot-water tank.

20. - 21. (Canceled)

22. (Previously Presented) The heat exchanger of claim 11, wherein the thickness is from 0.5 to 0.65 mm.

23. (Previously Presented) The heat exchanger of claim 12, wherein the mutual spacing between denticulations is between 20 and 30 mm.

24. – 25. (Canceled)

26. (Previously Presented) A construction kit for a heat exchanger system, comprising:

a plurality of heat exchangers; and

connecting elements for the connections of the heat exchangers configured according to claim 12.

27. – 29. (Canceled)

30. (Currently Amended) A compression-molding sheet-metal joining method for producing a heat exchanger having a flow-through chamber for a heat transfer medium, comprising:

providing two sheet-~~[[metal]]~~copper walls;

shaping out indentations providing reinforcement by deformation of ~~material of~~
~~at least one of the two~~ both sheet-~~[[metal]]~~copper walls;

disposing the two sheet-~~[[metal]]~~copper walls facing one another, the indentations in the ~~one~~ sheet-~~[[metal]]~~copper walls being back-to-back to one another and in contact with ~~the~~each other sheet-metal wall ~~to form a flow-through chamber, defining a plurality of connecting points; and~~

punctate fastening the two walls to one another at ~~a plurality of~~the connecting points by compression molding annular denticulations inside the indentations with spacing on all sides from an edge thereof, the annular denticulations forming by ~~compression molding the walls together by at least one of a material engagement and a positive engagement~~ of the two sheet-copper walls with each other.

31. (New) A heat exchanger forming a flow-through chamber for a heat transfer medium, comprising:

two sheet-copper walls having edges,

the walls having a plurality of approximately circular surface indentations between the edges,

the indentations being in contact and placed back-to-back to one another and defining connecting points, and

the two sheet-copper walls being positively engaged by annular denticulations compression molded on the connecting points.